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L2: Entry 16 of 16 File: DWPI Dec 7, 1993

DERWENT-ACC-NO: 1994-013613
DERWENT-WEEK: 199402

TITLE: Hologram recording medium having improved sensitivity - has interference fringe formed by laser beam, recorded onto hologram recording photosensitive layer on base

PATENT-ASSIGNEE:

ASSIGNEE	CODE
DAINIPPON PRINTING CO LTD	NIPQ

PRIORITY-DATA: 1992JP-0125825 (May 19, 1992)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 05323850 A	December 7, 1993		011	G03H001/02

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 05323850A	May 19, 1992	1992JP-0125825	

INT-CL (IPC): G03F 7/004; G03F 7/027; G03H 1/02

ABSTRACTED-PUB-NO: JP 05323850A
BASIC-ABSTRACT:

Interference fringe formed by interference of a laser beam, is recorded onto the hologram recording photosensitive layer on a base, in a hologram. The photosensitive layer comprises photosensitive material including a crosslinking component and thermal crosslinking agent. The interference fringe is stabilised by the thermal crosslinking reaction, after the interference fringe is recorded onto the photosensitive layer. The crosslinking component is a cpd. including at least two OH gps. in a molecule. The thermal crosslinking agent is a cpd. having at least two protected isocyanate gps.. The thermal crosslinking reaction is effected by the formation of a urethane bond of the isocyanate gp. obtd. by deprotecting by heating at above a specific temp., and the hydroxyl gp. included in the photosensitive material.

USE/ADVANTAGE - The structure of the interference fringe may be stabilised, and the sensitivity at the recording may be maintained.

CHOSEN-DRAWING: Dwg.1/1

TITLE-TERMS: HOLOGRAM RECORD MEDIUM IMPROVE SENSITIVE INTERFERENCE FRINGE FORMING LASER BEAM RECORD HOLOGRAM RECORD PHOTOSENSITISER LAYER BASE

DERWENT-CLASS: A25 A89 G06 P84

L2: Entry 4 of 16 File: JPAB Dec 7, 1993

PUB-NO: JP405323850A
DOCUMENT-IDENTIFIER: JP 05323850 A
TITLE: HOLOGRAM RECORDING MEDIUM

PUBN-DATE: December 7, 1993

INVENTOR-INFORMATION:
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ASSIGNEE-INFORMATION:
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DAINIPPON PRINTING CO LTD

APPL-NO: JP04125825
APPL-DATE: May 19, 1992

US-CL-CURRENT: 359/3
INT-CL (IPC): G03H 1/02; G03F 7/004; G03F 7/027; G03F 7/027

ABSTRACT:

PURPOSE: To stabilize a structure of interference fringes, to maintain the sensitivity at the excellent recording time, also to impart high weatherbility after the recording, to only require a heat crosslinking agent or an ionizing radiation beam setting material to add to a volume type hologram photosensitive material by dry recording which is known heretofore and to very simply improve the environmental resistance of a hologram.

CONSTITUTION: The hologram recording medium is a hologram which is recorded interference fringes formed by interference of laser beams on a hologram recording photosensitive layer 2 applied on a base material 1, and the photosensitive layer 2 consists of a photosensitive material incorporating a crosslinking agent and a heat crosslinking agent or of a photosensitive material and the inonizing radiation beam setting material. After the interference fringes to the photosensitive layer were recorded, the photosensitive layer is cured by a heat crosslinking reaction or irradiation of ionizing radiation beams and the interference fringes are stabilized.